

thereof.

82. The trichodiene synthase of claim 81, consisting of the amino acid sequence of SEQ ID NO:2.
83. The trichodiene synthase of claim 79, which is obtained from a *Fusarium* strain.
84. The trichodiene synthase of claim 83, wherein the *Fusarium* strain is a *Fusarium venenatum* strain.
85. The trichodiene synthase of claim 84, wherein the *Fusarium venenatum* strain is *Fusarium venenatum* ATCC 20334.
86. The trichodiene synthase of claim 79, which is encoded by the nucleic acid sequence contained in plasmid pTri5 contained in *E. coli* NRRL B-30029.
87. An isolated trichodiene synthase obtained from a *Fusarium venenatum* strain having an amino acid sequence which has at least 97% identity with SEQ ID NO. 2, or a fragment thereof that has trichodiene synthase activity.
88. The trichodiene synthase of claim 87, having an amino acid sequence which has at least 97% identity with SEQ ID NO. 2.
89. The trichodiene synthase of claim 87, which is obtained from *Fusarium venenatum* ATCC 20334.

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REMARKS

Claims 70-78 have been canceled. New claims 79-89 have been added and are pending in the present application.

It is respectfully submitted that the present amendment presents no new issues or new matter and places this case in condition for allowance. Reconsideration of the application in view of the above amendments and the following remarks is requested.

I. The Restriction Requirement

The Office Action imposed restriction and election requirements. Specifically, Applicants were requested to elect between the following groups: